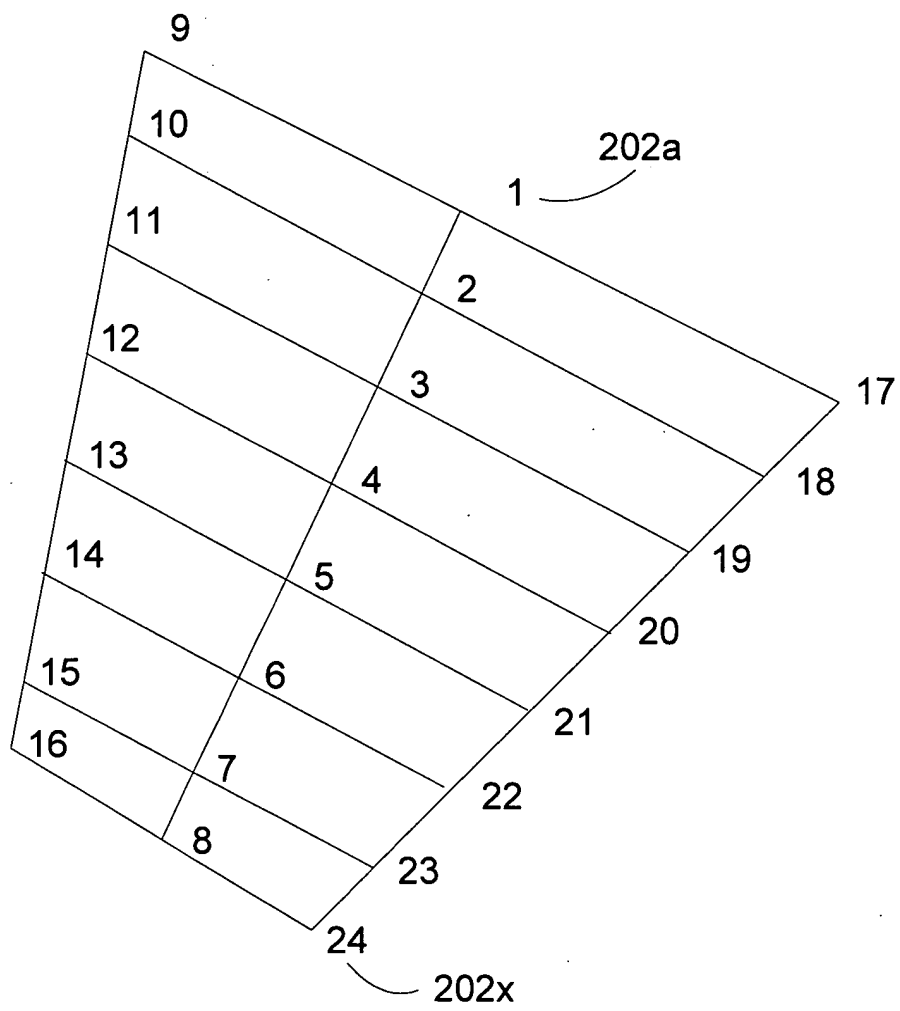


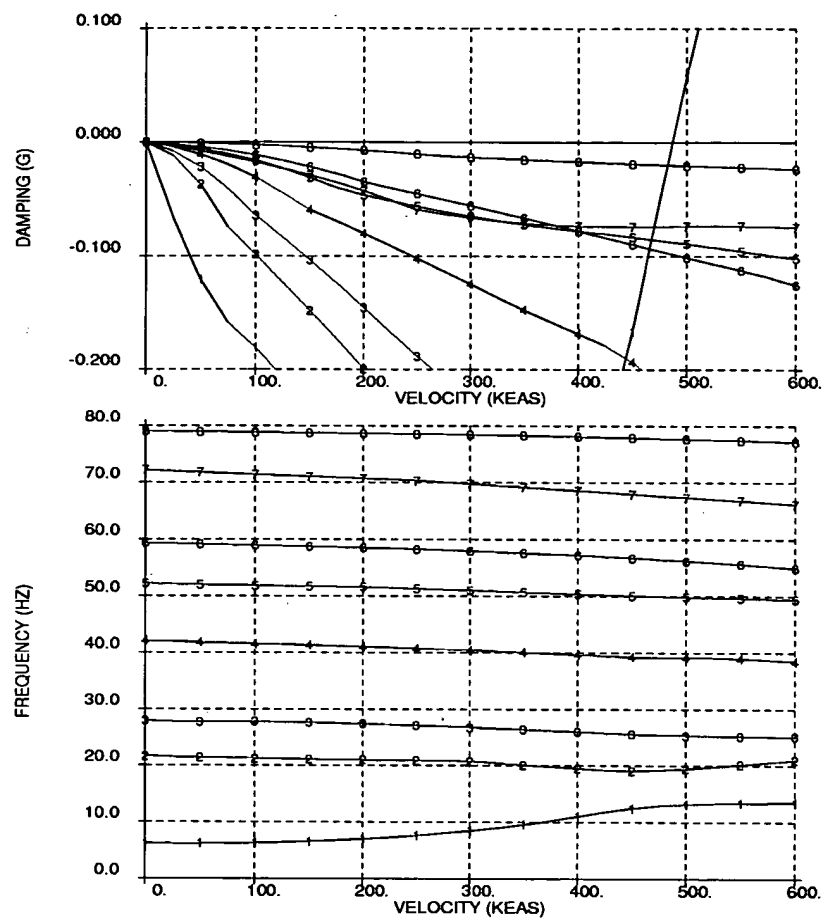
**FIG. 1**

Prior Art

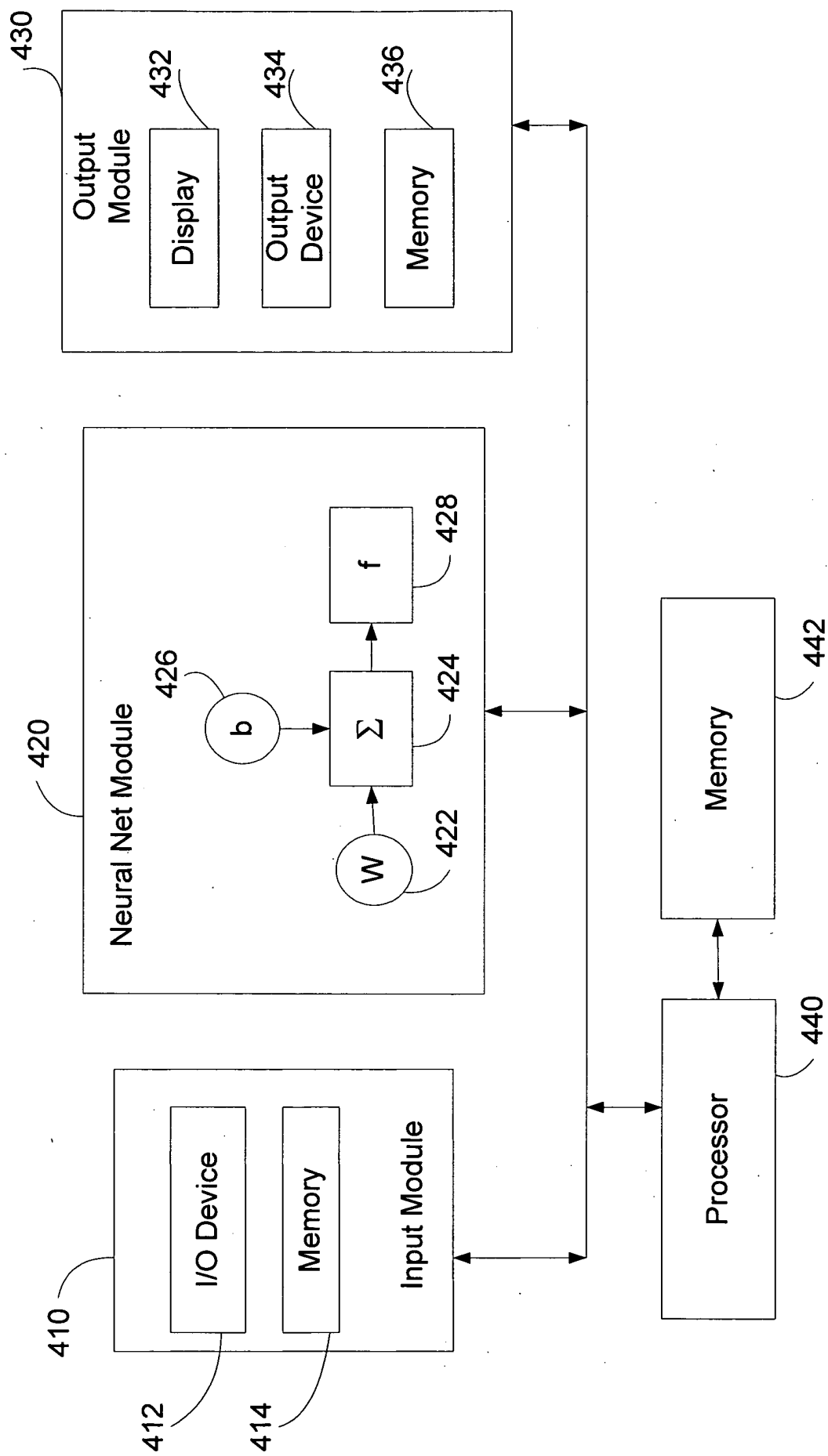
200



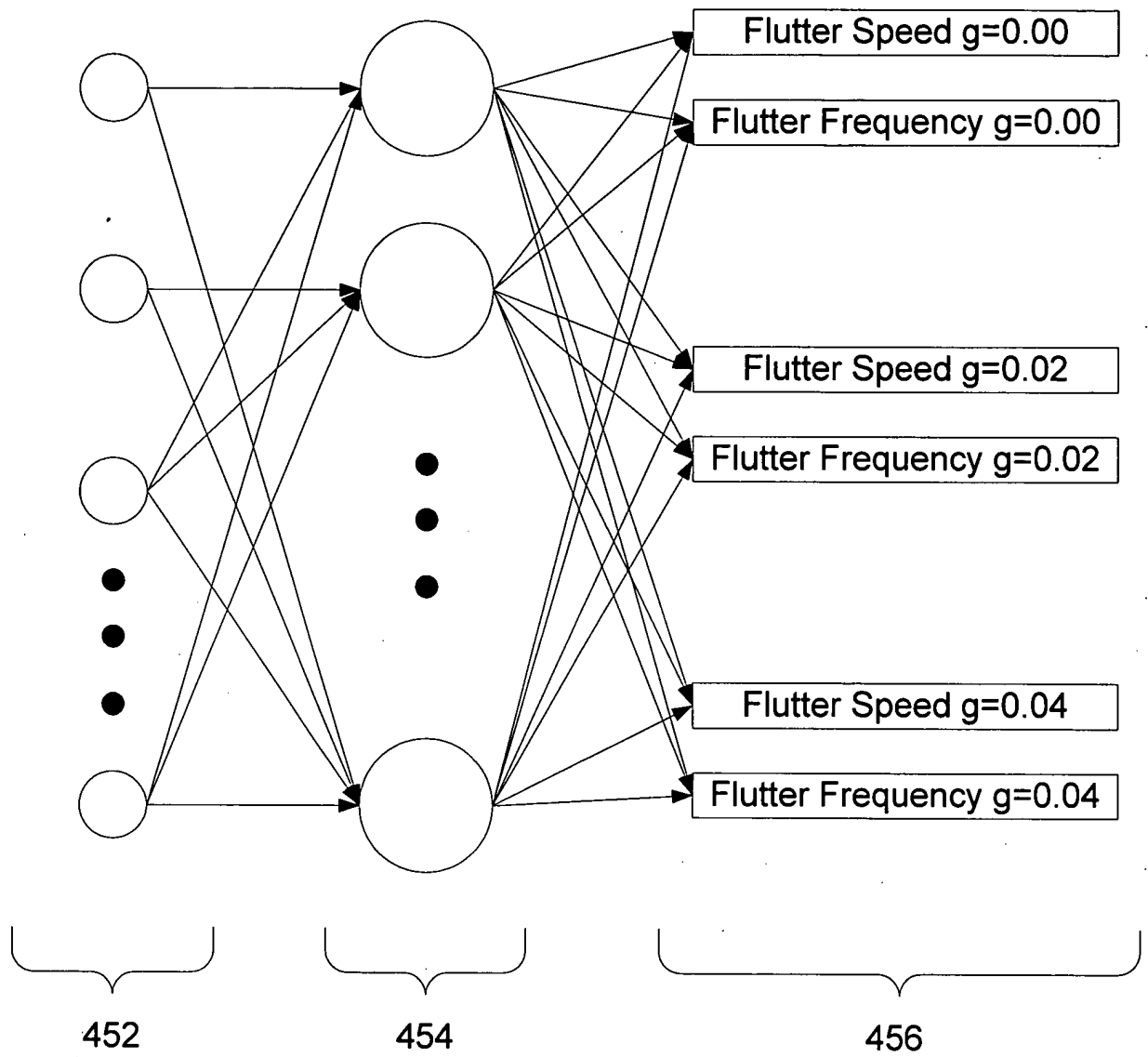
**FIG. 2**



**FIG. 3**

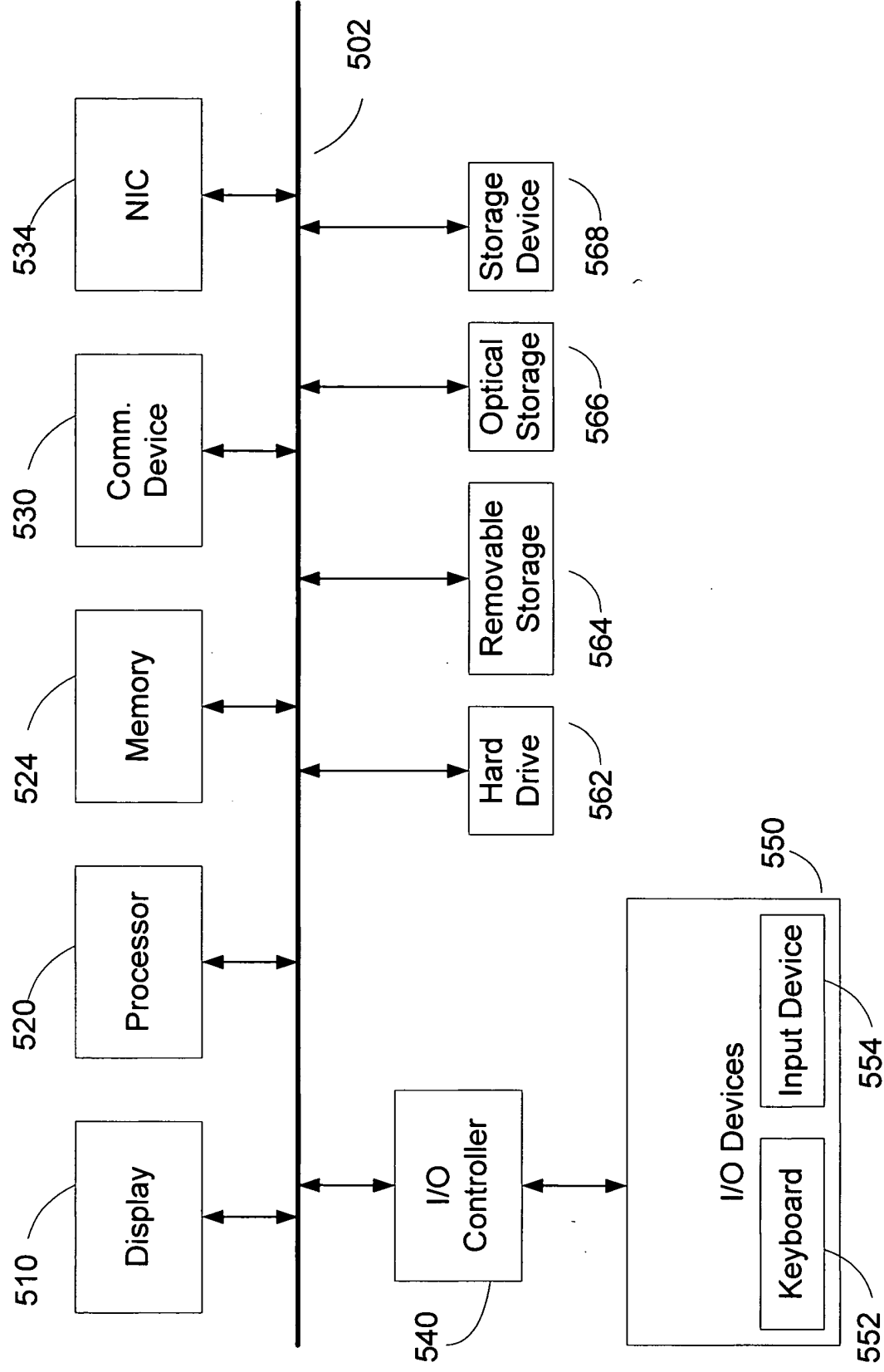


**FIG. 4A**

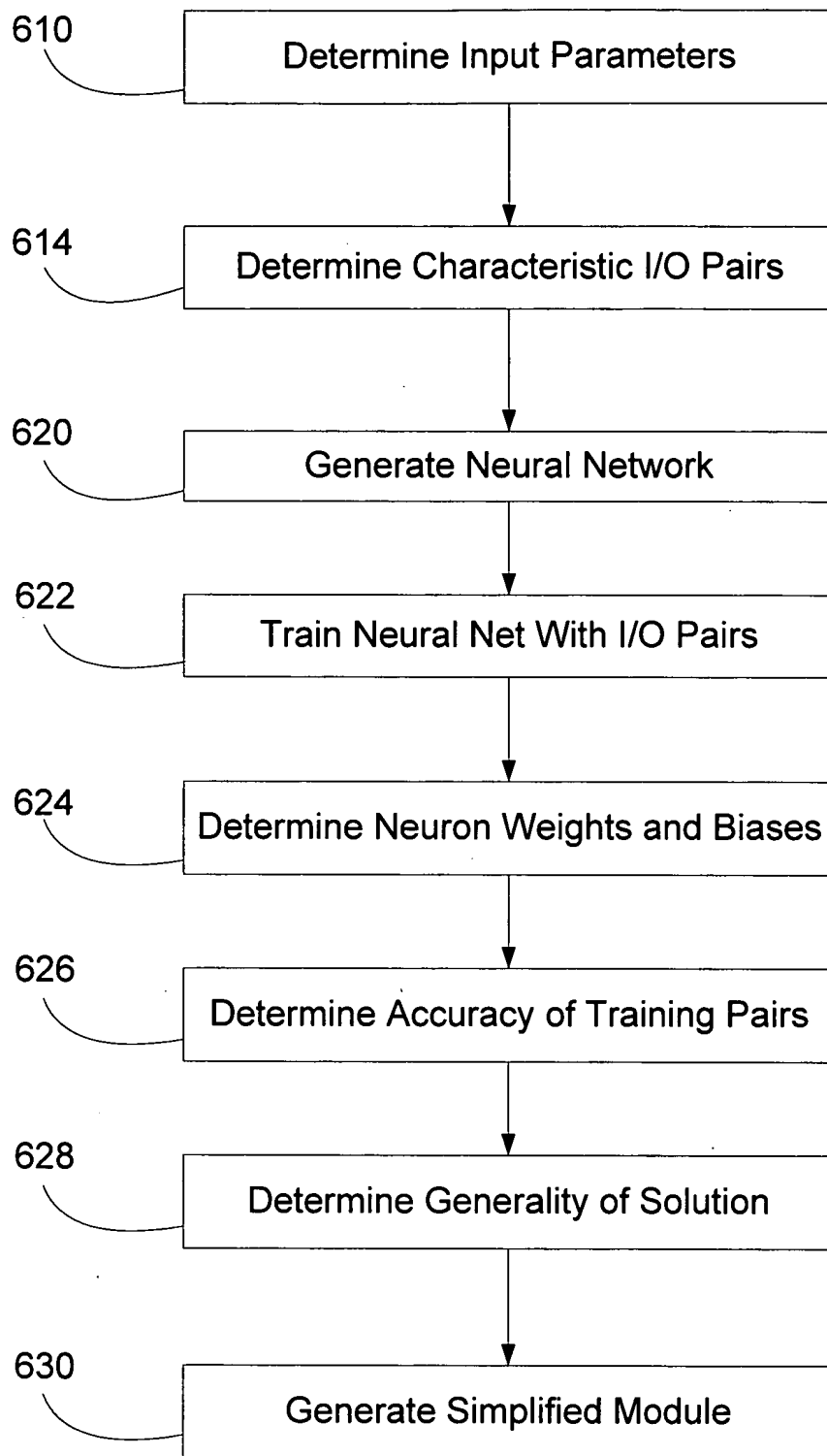


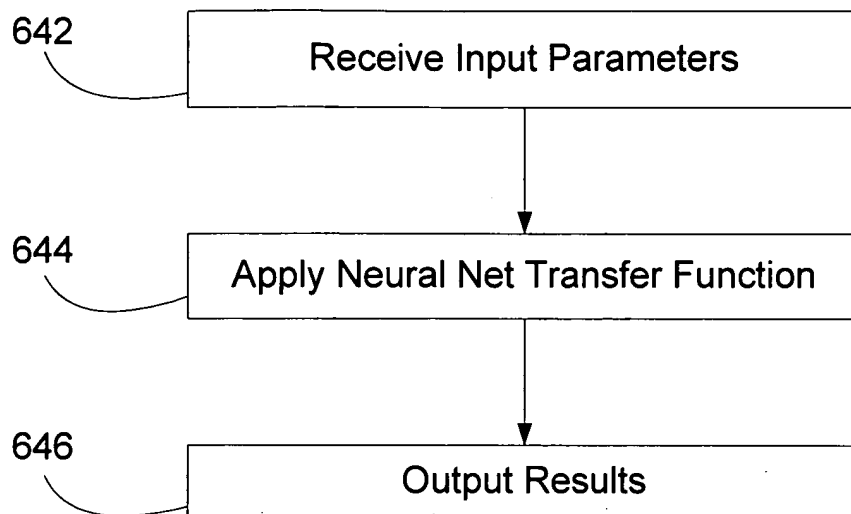
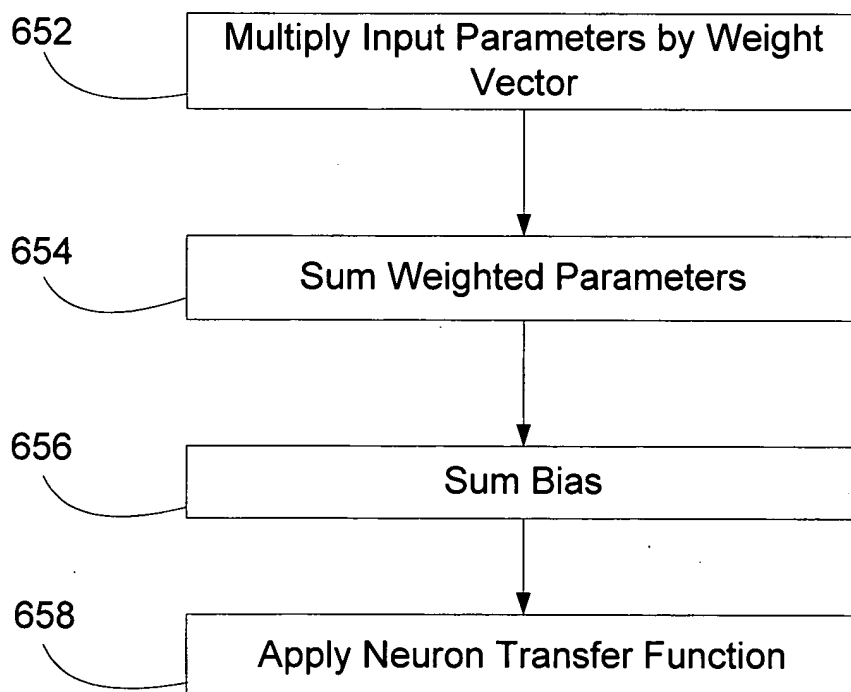
**FIG. 4B**

500



**FIG. 5**

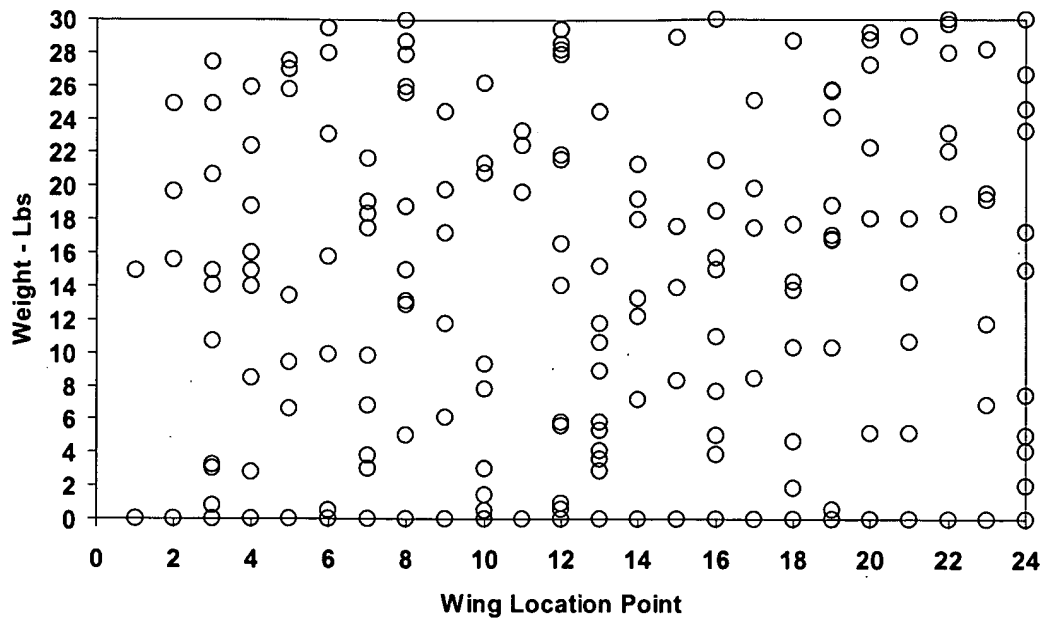
**FIG. 6A**

**FIG. 6B****FIG. 6C**



# Weight Distribution

700



**FIG. 7**

anan\_gui

### AN<sup>2</sup> Artificial Neural Aeroelastic Network

**Input Values for AN<sup>2</sup>**

Enter Values: 822

Weight (lbs)  824

Grid Point

**Calculate**

**Flutter Results from AN<sup>2</sup>**

g = 0.00 Flutter Speed  842

g = 0.00 Flutter Frequency  844

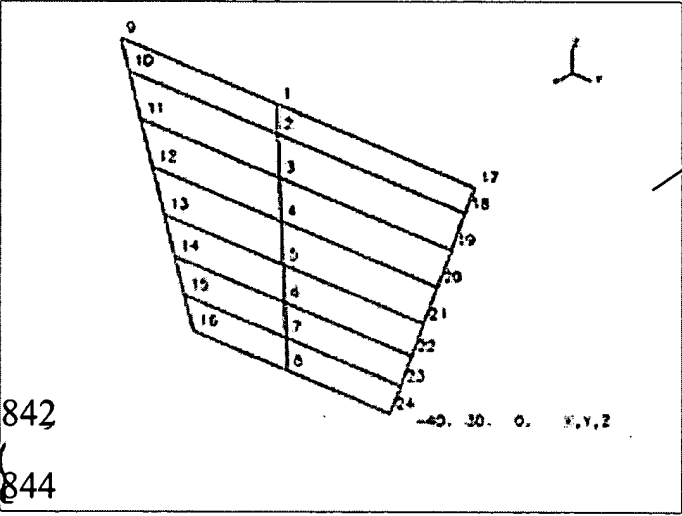
g = 0.02 Flutter Speed  852

g = 0.02 Flutter Frequency  854

g = 0.04 Flutter Speed  862

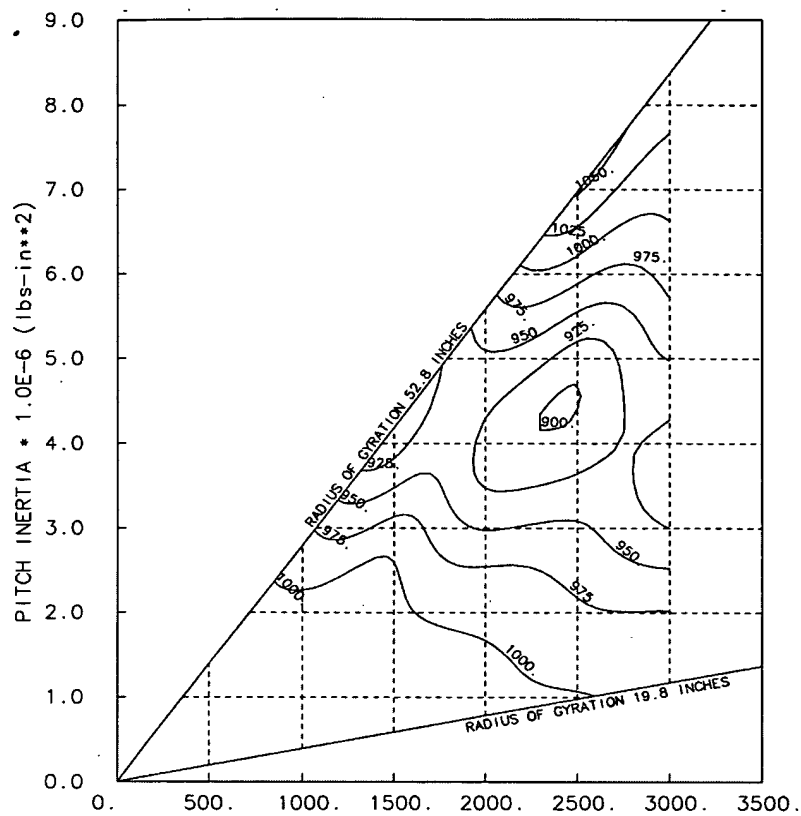
g = 0.04 Flutter Frequency  864

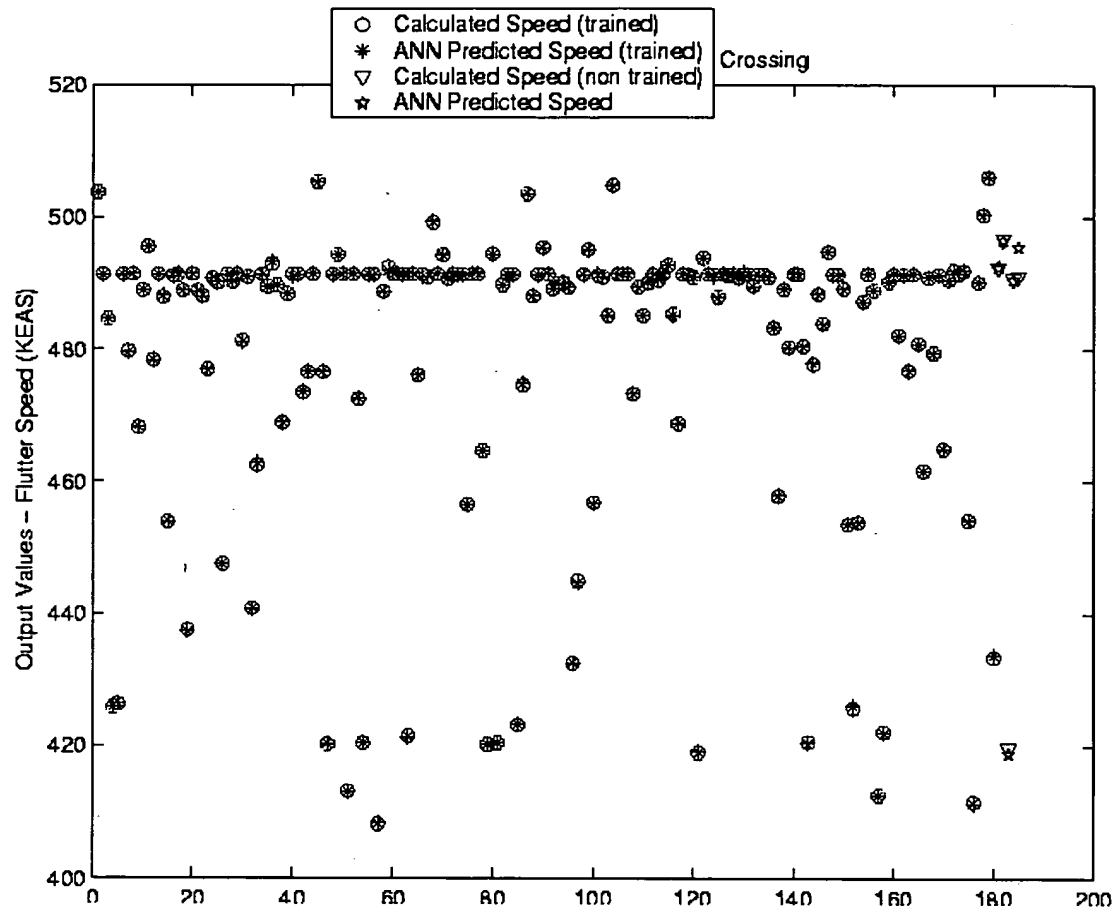
**Close**

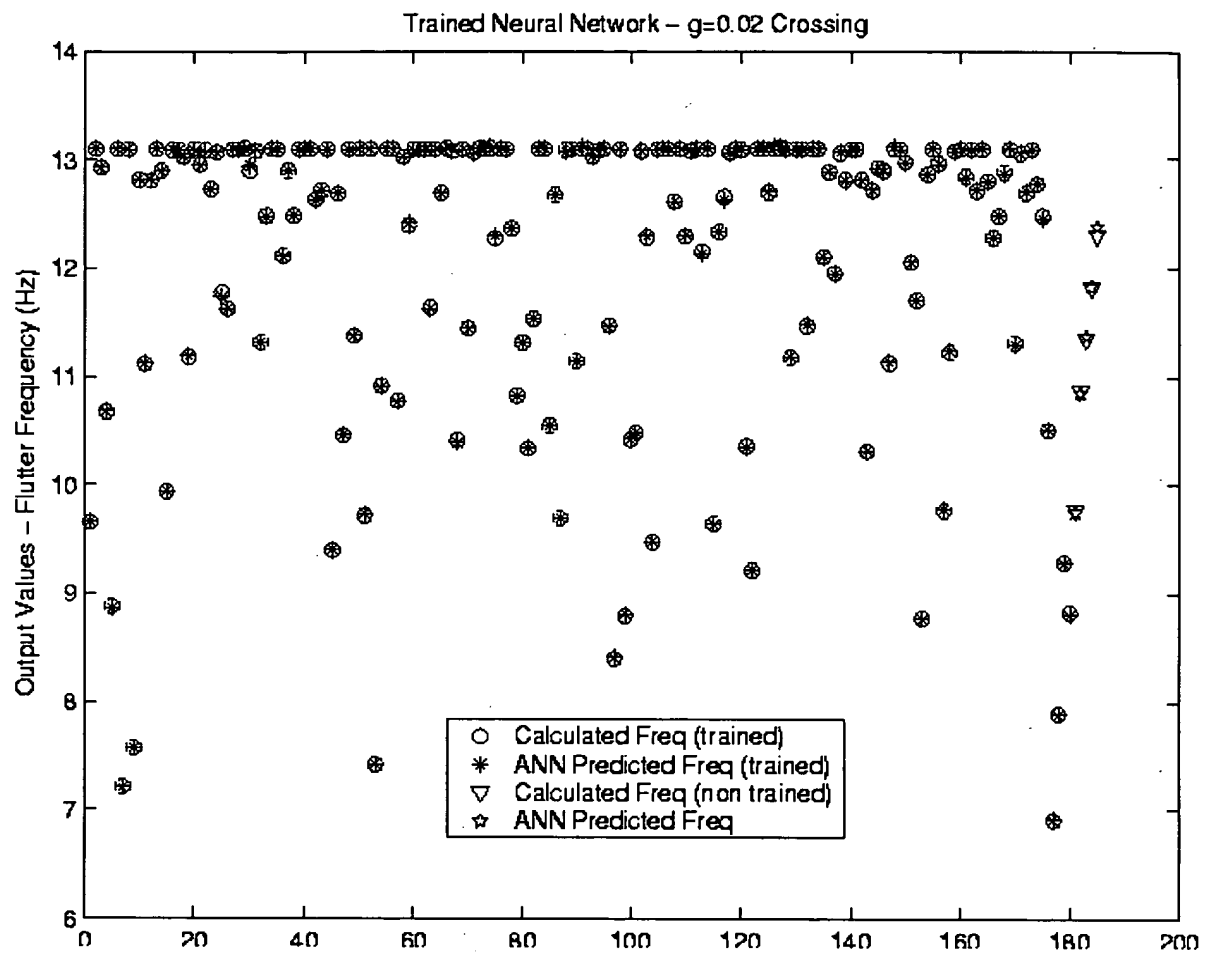


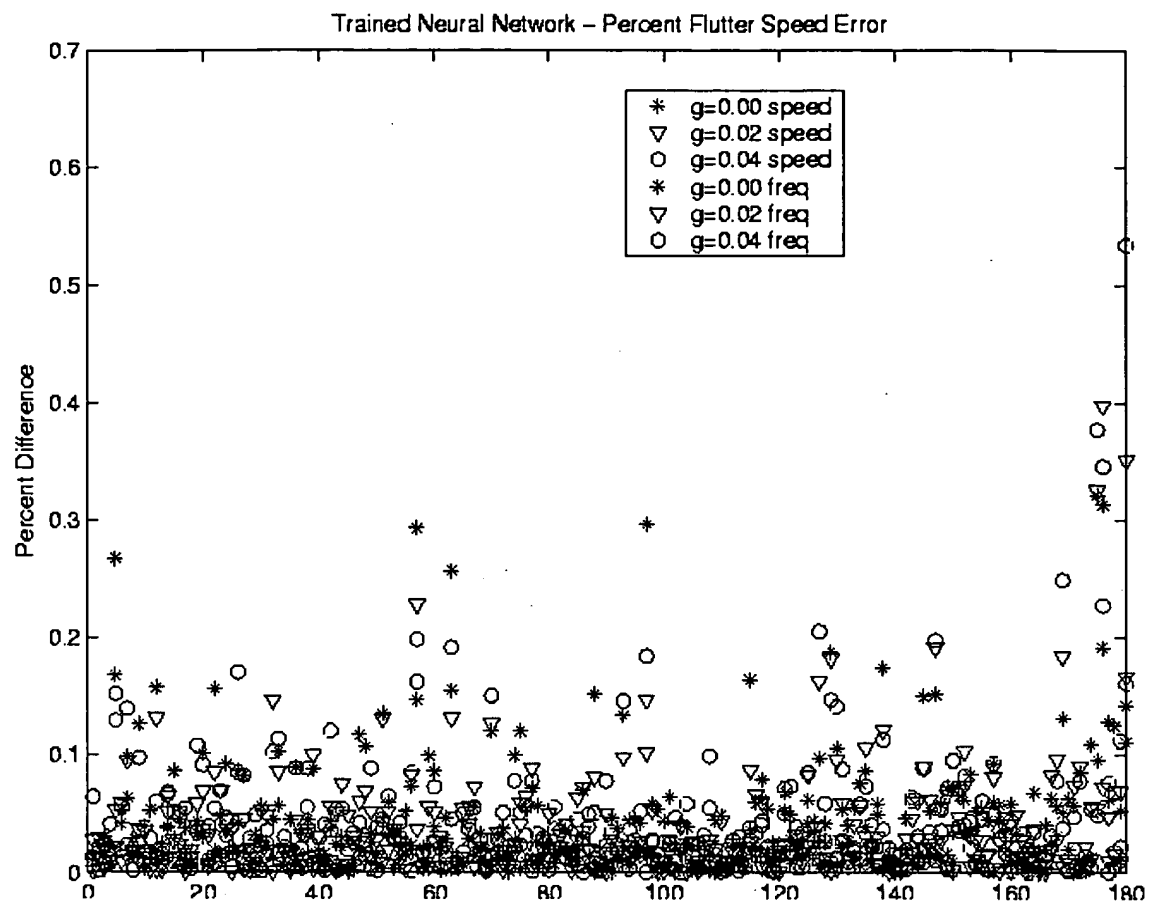
810

FIG. 8

**FIG. 9**

**FIG. 10A**

**FIG. 10B**

**FIG. 11**